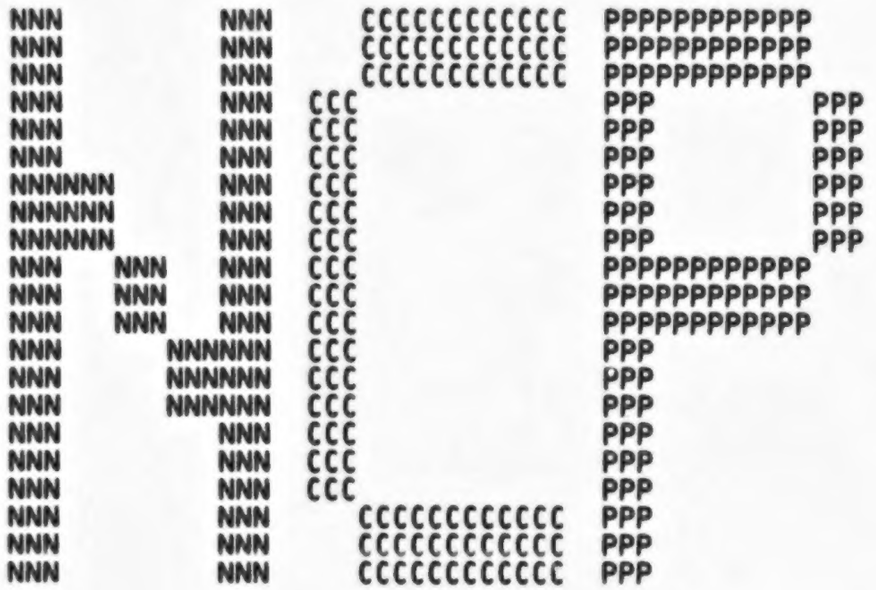
NNN NNN CCCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCC PPP PPP
NNN NNN CCC PPP PPP
NNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNN NNN NNN CCC PPPPPPPPPPPP
NNN NNN NNN CCC PPPPPPPPPPPP
NNN NNN NNN CCC PPPPPPPPPPPP
NNN NNNNNN CCC PPP
NNN NNNNNN CCC PPP
NNN NNNNNN CCC PPP
NNN NNN CCC PPP
NNN NNN CCC PPP
NNN NNN CCC PPP
NNN NNN CCCCCCCCCCCC PPP
NNN NNN CCCCCCCCCCCC PPP
NNN NNN CCCCCCCCCCCC PPP

FILEID**NCPSTAMTR

```
NN      NN    CCCCCCCC  PPPPPPPP     SSSSSSSS  TTTTTTTTTT    AAAAAA    MM      MM  TTTTTTTTTT  RRRRRRRR
NN      NN    CCCCCCCC  PPPPPPPP     SSSSSSSS  TTTTTTTTTT    AAAAAA    MM      MM  TTTTTTTTTT  RRRRRRRR
NN      NN  CC          PP      PP  SS            TT       AA      AA  MMMM  MMMM      TT      RR      RR
NN      NN  CC          PP      PP  SS            TT       AA      AA  MMMM  MMMM      TT      RR      RR
NNNN    NN  CC          PP      PP  SS            TT       AA      AA  MM  MM  MM      TT      RR      RR
NNNN    NN  CC          PP      PP  SS            TT       AA      AA  MM  MM  MM      TT      RR      RR
NN  NN  NN  CC          PPPPPPPP      SSSSSS      TT       AA      AA  MM      MM      TT      RRRRRRRR
NN  NN  NN  CC          PPPPPPPP      SSSSSS      TT       AA      AA  MM      MM      TT      RRRRRRRR
NN    NNNN  CC          PP                  SS    TT       AAAAAAAAAA  MM      MM      TT      RR  RR
NN    NNNN  CC          PP                  SS    TT       AAAAAAAAAA  MM      MM      TT      RR  RR
NN      NN  CC          PP                  SS    TT       AA      AA  MM      MM      TT      RR    RR        ....
NN      NN  CC          PP                  SS    TT       AA      AA  MM      MM      TT      RR    RR        ....
NN      NN    CCCCCCCC  PP            SSSSSSSS    TT       AA      AA  MM      MM      TT      RR      RR      ....
NN      NN    CCCCCCCC  PP            SSSSSSSS    TT       AA      AA  MM      MM      TT      RR      RR      ....

LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

```
;     1          0001  0 %TITLE  'X.25 Trace Module Parsing'
;     2          0002  0 MODULE NCPSTAMTR (IDENT = 'V04-000',LIST(NOOBJECT)) =
;     3          0003  1 BEGIN
;     4          0004  1
;     5          0005  1 !
;     6          0006  1 !*****************************************************************************
;     7          0007  1 !*                                                                           *
;     8          0008  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
;     9          0009  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                    *
;    10          0010  1 !*  ALL RIGHTS RESERVED.                                                     *
;    11          0011  1 !*                                                                           *
;    12          0012  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED   *
;    13          0013  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
;    14          0014  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER   *
;    15          0015  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
;    16          0016  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
;    17          0017  1 !*  TRANSFERRED.                                                             *
;    18          0018  1 !*                                                                           *
;    19          0019  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
;    20          0020  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
;    21          0021  1 !*  CORPORATION.                                                             *
;    22          0022  1 !*                                                                           *
;    23          0023  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
;    24          0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
;    25          0025  1 !*                                                                           *
;    26          0026  1 !*                                                                           *
;    27          0027  1 !*****************************************************************************
;    28          0028  1 !
;    29          0029  1
;    30          0030  1 !++
;    31          0031  1 ! FACILITY:     Network Control Program (NCP)
;    32          0032  1 !
;    33          0033  1 ! ABSTRACT:
;    34          0034  1 !
;    35          0035  1 !       States and data for the parsing of NCP X.25 Trace module parameters
;    36          0036  1 !
;    37          0037  1 ! ENVIRONMENT:  VAX/VMS Operating System
;    38          0038  1 !
;    39          0039  1 ! AUTHOR:       Bob Grosso July 1982
;    40          0040  1 !
;    41          0041  1 ! MODIFIED BY:
;    42          0042  1 !
;    43          0043  1 !       V03-005 RPG0005         Bob Grosso              04-Nov-1982
;    44          0044  1 !               Correct SET X-T K T STATE ON from parsing STA instead
;    45          0045  1 !               of TST.
;    46          0046  1 !
;    47          0047  1 !       V03-004 RPG0004         Bob Grosso              15-Sep-1982
;    48          0048  1 !               Flag presence of qualifier on command line so that
;    49          0049  1 !               the ALL check in NCPVRBACT will work properly.
;    50          0050  1 !               Make a noise word of X25-T in SET/CLEAR tracepoint.
;    51          0051  1 !
;    52          0052  1 !       V03-003 RPG0003         Bob Grosso              03-Sep-1982
;    53          0053  1 !               Fix parameter ranges in some prompt strings.
;    54          0054  1 !
;    55          0055  1 !       V03-002 TMH0002         Tim Halvorsen           16-Aug-1982
;    56          0056  1 !               Fix PCL table so that literal parameters such as STATE
;    57          0057  1 !               as coded as NUMB rather than LITB, since that is the
```

```
;    58          0058  1 !                 way byte values are put into the NICE message.  (In a
;    59          0059  1 !                 PCL list, LITB means store the parameter code, but no
;    60          0060  1 !                 value - used in CLEAR/PURGE).
;    61          0061  1 !                 Fix so that TRACEPOINT STATE is distinguished from
;    62          0062  1 !                 X25-TRACE STATE, and so that a different parameter code
;    63          0063  1 !                 is sent for each.
;    64          0064  1 !                 Fix CLEAR TPT PBK to correctly indicate that it is a TKN
;    65          0065  1 !                 rather than a LITB, so that the tracepoint name is sent
;    66          0066  1 !                 correctly in the NICE message.
;    67          0067  1 !
;    68          0068  1 !       V03-001 RPG0001         Bob Grosso              03-Aug-1982
;    69          0069  1 !                 Enhance prompting for ALL
;    70          0070  1 !
;    71          0071  1 !--
```

```
;    73          0072  1 %SBTTL  'Definitions'
;    74          0073  1
;    75          0074  1 !
;    76          0075  1 ! INCLUDE FILES:
;    77          0076  1 !
;    78          0077  1
;    79          0078  1         LIBRARY 'LIB$:NMALIBRY';
;    80          0079  1         LIBRARY 'LIB$:NCPLIBRY';
;    81          0080  1         LIBRARY 'SYS$LIBRARY:TPAMAC';
;    82          0081  1
;    83          0082  1 !
;    84          0083  1 ! EXTERNAL REFERENCES:
;    85          0084  1 !
;    86          0085  1
;    87          0086  1         ACT_DFN                 ! Action routine externals
;    88          0087  1
;    89          0088  1 EXTERNAL
;    90          0089  1         NCP$GL_QUALPRS;         ! Flag presence of qualifier
;    91          0090  1
;    92          0091  1 !
;    93          0092  1 ! OWN storage
;    94          0093  1 !
;    95          0094  1
;    96          0095  1 OWN
;    97          0096  1     TPT_PARAMS;                 ! True if tracepoint parameters
;    98          0097  1                                 ! False if trace-wide parameters
;    99          0098  1
;   100          0099  1 !
;   101          0100  1 ! LITERALS
;   102          0101  1 !
;   103          0102  1
;   104          0103  1 LITERAL
;   105          0104  1         QUALPRESENT = 1;        ! Flag presence of qualifier on command line
;   106          0105  1
```

```
;  108          0106  1 %SBTTL  'Set Parameter blocks'
;  109          0107  1
;  110          0108  1 !
;  111          0109  1 !       Set X25-TRACE Parameter Blocks
;  112          0110  1 !
;  113          0111  1
;  114        P 0112  1         BUILD_PCL
;  115        P 0113  1
;  116        P 0114  1         (MTR,                                   ! Module X25-TRACE
;  117        P 0115  1
;  118        P 0116  1         TPT, TKN,       PCXT_TPT, ,
;  119        P 0117  1
;  120        P 0118  1         STA, NUMB,      PCXT_STA, ,
;  121        P 0119  1         BSZ, NUMW,      PCXT_BSZ, ,
;  122        P 0120  1         MBK, NUMW,      PCXT_MBK, ,
;  123        P 0121  1         FNM, TKN,       PCXT_FNM, ,
;  124        P 0122  1         MBF, NUMW,      PCXT_MBF, ,
;  125        P 0123  1         CPL, NUMW,      PCXT_CPL, ,
;  126        P 0124  1         MVR, NUMW,      PCXT_MVR, ,
;  127        P 0125  1
;  128        P 0126  1         CPS, NUMW,      PCXT_CPS, ,
;  129        P 0127  1         TST, NUMB,      PCXT_TST, ,
;  130        P 0128  1
;  131        P 0129  1         , END, , ,
;  132        P 0130  1
;  133          0131  1         )
;  134          0132  1
;  135        P 0133  1         BUILD_PBK
;  136        P 0134  1
;  137        P 0135  1         (MTR,                                   ! Module X25-TRACE
;  138        P 0136  1
;  139        P 0137  1         STAON, LITB, NMA$C_STATE_ON, MTR_STA,
;  140        P 0138  1         STAOFF, LITB, NMA$C_STATE_OFF, MTR_STA,
;  141        P 0139  1         BSZ, NUMW, , ,
;  142        P 0140  1         MBK, NUMW, , ,
;  143        P 0141  1         FNM, TKN, , ,
;  144        P 0142  1         MBF, NUMW, , ,
;  145        P 0143  1         CPL, NUMW, , ,
;  146        P 0144  1         MVR, NUMW, , ,
;  147        P 0145  1         TPT, TKN, , ,
;  148        P 0146  1         KTP, LITB, NMA$C_ENT_KNO, MTR_TPT,      ! Known tracepoints
;  149        P 0147  1         CPS, NUMW, , ,
;  150        P 0148  1         TSTON, LITB, NMA$C_STATE_ON, MTR_TST,
;  151        P 0149  1         TSTOFF, LITB, NMA$C_STATE_OFF, MTR_TST,
;  152        P 0150  1
;  153          0151  1         )
;  154          0152  1
;  155          0153  1 BIND    PDB$G_MTR_ENT = UPLIT BYTE(0, %ASCIC 'X25-TRACE');
;  156          0154  1
;  157        P 0155  1         BUILD_SDB
;  158          0156  1         (MTR, NMA$C_ENT_MOD, MTR_ENT, MTR)
```

```
;  160          0157  1 %SBTTL  'Clear Parameter blocks'
;  161          0158  1
;  162          0159  1 !
;  163          0160  1 !       Clear X25-TRACE Parameter Blocks
;  164          0161  1 !
;  165          0162  1
;  166        P 0163  1         BUILD_PCL
;  167        P 0164  1
;  168        P 0165  1         (CTR,                                          ! Module X25-TRACE
;  169        P 0166  1
;  170        P 0167  1         TPT, TKN,       PCXT_TPT, ,
;  171        P 0168  1
;  172        P 0169  1         STA, LITB,      PCXT_STA, ,
;  173        P 0170  1         BSZ, LITB,      PCXT_BSZ, ,
;  174        P 0171  1         MBK, LITB,      PCXT_MBK, ,
;  175        P 0172  1         FNM, LITB,      PCXT_FNM, ,
;  176        P 0173  1         MBF, LITB,      PCXT_MBF, ,
;  177        P 0174  1         CPL, LITB,      PCXT_CPL, ,
;  178        P 0175  1         MVR, LITB,      PCXT_MVR, ,
;  179        P 0176  1
;  180        P 0177  1         CPS, LITB,      PCXT_CPS, ,
;  181        P 0178  1         TST, LITB,      PCXT_TST, ,
;  182        P 0179  1
;  183        P 0180  1         , END, , ,
;  184        P 0181  1
;  185          0182  1         )
;  186          0183  1
;  187        P 0184  1         BUILD_PBK
;  188        P 0185  1
;  189        P 0186  1         (CTR,                                          ! Module X25-TRACE
;  190        P 0187  1
;  191        P 0188  1         ALL, LITB, 0, VRB_ALL,
;  192        P 0189  1
;  193        P 0190  1         STA, LITB, 0, ,
;  194        P 0191  1         BSZ, LITB, 0, ,
;  195        P 0192  1         MBK, LITB, 0, ,
;  196        P 0193  1         FNM, LITB, 0, ,
;  197        P 0194  1         MBF, LITB, 0, ,
;  198        P 0195  1         CPL, LITB, 0, ,
;  199        P 0196  1         MVR, LITB, 0, ,
;  200        P 0197  1         TPT, TKN,  0, ,
;  201        P 0198  1         KTP, LITB, NMA$C_ENT_KNO, CTR_TPT,      ! Known tracepoints
;  202        P 0199  1         CPS, LITB, 0, ,
;  203        P 0200  1         TST, LITB, 0, ,
;  204        P 0201  1
;  205          0202  1         )
;  206          0203  1
;  207        P 0204  1         BUILD_SDB
;  208        P 0205  1
;  209          0206  1         (CTR, NMA$C_ENT_MOD, MTR_ENT, CTR)
```

```
;  211          0207  1 %SBTTL  'Prompt strings'
;  212          0208  1
;  213          0209  1 !
;  214          0210  1 !       Build prompt strings
;  215          0211  1 !
;  216          0212  1
;  217          0213  1 BIND
;  218          0214  1
;  219        P 0215  1         PROMPT_STRINGS
;  220        P 0216  1         (MTR,
;  221        P 0217  1
;  222        P 0218  1         DAT, '          (TRACEPOINT name, or KNOWN): ',
;  223        P 0219  1         KWN, '                        (TRACEPOINTS): ',
;  224        P 0220  1
;  225        P 0221  1         STA, 'State                      (ON or OFF): ',
;  226        P 0222  1         BSZ, 'Buffer size              (1-4096 bytes): ',
;  227        P 0223  1         MBK, 'Maximum blocks             (1-65535): ',
;  228        P 0224  1         FNM, 'Filename               (1-253 characters): ',
;  229        P 0225  1         MBF, 'Maximum number of buffers      (1-255): ',
;  230        P 0226  1         CPL, 'Global data capture limit    (1-65535): ',
;  231        P 0227  1         MVR, 'Maximum trace file version     (1-255): ',
;  232        P 0228  1         TPT, 'Trace point name (tracepointname.channel): ',
;  233        P 0229  1         CPS, 'Per-trace capture size (1-65535 bytes): ',
;  234        P 0230  1         TST, 'Per-trace state            (ON or OFF): ',
;  235          0231  1         ),
;  236          0232  1
;  237        P 0233  1         PROMPT_STRINGS
;  238        P 0234  1         (CTR,
;  239        P 0235  1
;  240        P 0236  1         DAT, '          (TRACEPOINT name, or KNOWN): ',
;  241        P 0237  1         KWN, '                        (TRACEPOINTS): ',
;  242        P 0238  1         ALL, 'All X.25 Trace parameters      (Y, N): ',
;  243        P 0239  1         ALL2, 'All X.25 Trace tracepoint parameters  (Y, N): ',
;  244        P 0240  1
;  245        P 0241  1         STA, 'State                          (Y, N): ',
;  246        P 0242  1         BSZ, 'Buffer size                    (Y, N): ',
;  247        P 0243  1         MBK, 'Maximum blocks                 (Y, N): ',
;  248        P 0244  1         FNM, 'Filename                       (Y, N): ',
;  249        P 0245  1         MBF, 'Maximum number of buffers      (Y, N): ',
;  250        P 0246  1         CPL, 'Global data capture limit      (Y, N): ',
;  251        P 0247  1         MVR, 'Maximum trace file version     (Y, N): ',
;  252        P 0248  1         TPT, 'Trace point name               (Y, N): ',
;  253        P 0249  1         CPS, 'Per-trace capture size         (Y, N): ',
;  254        P 0250  1         TST, 'Per-trace state                (Y, N): ',
;  255        P 0251  1
;  256          0252  1         );
```

```
;  258     0253  1 %SBTTL  'Declare entry points to TPARSE tables'
;  259     0254  1
;  260     0255  1 !
;  261     0256  1 !       Declare entry points to this TPARSE table
;  262     0257  1 !
;  263     0258  1
;  264     0259  1 $INIT_STATE (NCP$G_STTBL_MTR, NCP$G_KYTBL_MTR);
;  265     0260  1
;  266     0261  1 FORWARD
;  267     0262  1         ST_MTRTPT:      VECTOR [0],     ! Set X25-TRACE Tracepoint
;  268     0263  1         ST_CTRTPT:      VECTOR [0],     ! Clear X25-TRACE Tracepoint
;  269     0264  1         ST_CTR:         VECTOR [0];     ! Clear X25-TRACE
;  270     0265  1
;  271     0266  1 GLOBAL BIND
;  272     0267  1         NCP$G_STTBL_MTRTPT = ST_MTRTPT,
;  273     0268  1         NCP$G_KYTBL_MTRTPT = NCP$G_KYTBL_MTR,
;  274     0269  1         NCP$G_STTBL_CTR = ST_CTR,
;  275     0270  1         NCP$G_KYTBL_CTR = NCP$G_KYTBL_MTR,
;  276     0271  1         NCP$G_STTBL_CTRTPT = ST_CTRTPT,
;  277     0272  1         NCP$G_KYTBL_CTRTPT = NCP$G_KYTBL_MTR;
```

```
;  279          0273  1 %SBTTL  'SET X25-TRACE Module Parameters'
;  280          0274  1
;  281          0275  1 !
;  282          0276  1 !       SET/DEFINE MODULE X25-TRACE parameter states
;  283          0277  1 !
;  284          0278  1
;  285        P 0279  1 $STATE  (ST_MTR,
;  286        P 0280  1          ((ST_MTR_INIT))
;  287          0281  1          );
;  288        P 0282  1 $STATE  (,
;  289        P 0283  1          (TPA$_EOS, ST_MTR_PMT_DAT),
;  290        P 0284  1          (TPA$_LAMBDA, ST_MTR_DAT)
;  291          0285  1          );
;  292          0286  1
;  293          0287  1 !
;  294          0288  1 !       SET TRACEPOINT dispatched from NCPSTAVRB
;  295          0289  1 !
;  296        P 0290  1 $STATE  (ST_MTRTPT,
;  297        P 0291  1          ((ST_MTR_INIT), ST_MTR_DAT_TPT)
;  298          0292  1          );
;  299          0293  1
;  300        P 0294  1 $STATE  (ST_MTR_INIT,
;  301          0295  1          (TPA$_LAMBDA, TPA$_EXIT, ACT$CLRLONG,,, TPT_PARAMS)); ! Assume trace-wide params
;  302          0296  1
;  303          0297  1 !
;  304          0298  1 !       Determine which X25 Trace sub-database we are talking about
;  305          0299  1 !       (due to grouping restrictions, the command must not mix
;  306          0300  1 !       sub-database parameters).  The sub-database may be either
;  307          0301  1 !       X25-Trace or tracepoint parameters.
;  308          0302  1 !
;  309          0303  1
;  310        P 0304  1 $STATE  (ST_MTR_PMT_DAT,
;  311          0305  1          (TPA$_LAMBDA,, ACT$PRMPT,,, PMT$G_MTR_DAT));
;  312          0306  1
;  313        P 0307  1 $STATE  (ST_MTR_DAT,              ! Determine whether TRACEPOINT parameters
;  314        P 0308  1          ('TRACEPOINT',  ST_MTR_DAT_TPT),
;  315        P 0309  1          ('KNOWN',       ST_MTR_DAT_KWN),
;  316        P 0310  1          (TPA$_LAMBDA)            ! Else assume TRACE-wide parameters
;  317          0311  1          );
;  318          0312  1
;  319          0313  1 !
;  320          0314  1 !       Prompt for normal Trace parameters
;  321          0315  1 !
;  322        P 0316  1 $STATE  (,
;  323        P 0317  1          (TPA$_EOS),                      ! Start prompting if EOS
;  324          0318  1          (TPA$_LAMBDA,   ST_MTR_PRC));    ! Else try parsing parameters
;  325          0319  1
;  326        P 0320  1          PROMPT_STATES
;  327        P 0321  1          (MTR,
;  328        P 0322  1
;  329          0323  1          STA, BSZ, MBK, FNM, MBF, CPL, MVR)
;  330          0324  1
;  331        P 0325  1 $STATE  (,
;  332          0326  1          (TPA$_LAMBDA, ST_MTR_DOIT));
;  333          0327  1
;  334          0328  1 !
;  335          0329  1 !       Prompt for tracepoint parameters
```

```
;  336          0330  1 !
;  337          0331  1
;  338        P 0332  1 $STATE  (ST_MTR_DAT_TPT,
;  339          0333  1          ((SE_TRCPNT_NAME),, ACT$SAVPRM,QUALPRESENT, NCP$GL_QUALPRS, PBK$G_MTR_TPT));
;  340          0334  1
;  341        P 0335  1 $STATE  (ST_MTR_PMT_TPT,
;  342        P 0336  1          (TPA$_EOS),                    ! Start prompting if EOS
;  343        P 0337  1          (TPA$_LAMBDA, ST_MTR_PRC,,     ! Else try parsing parameters while
;  344          0338  1                  TRUE, TPT_PARAMS));    ! remembering that we are parsing
;  345          0339  1                                         ! tracepoint-specific parameters
;  346          0340  1
;  347        P 0341  1          PROMPT_STATES
;  348        P 0342  1          (MTR,
;  349        P 0343  1
;  350          0344  1          CPS, TST)
;  351          0345  1
;  352        P 0346  1 $STATE  (ST_MTR_DOIT,
;  353        P 0347  1          (TPA$_EOS, TPA$_EXIT, ACT$VRB_UTILITY, , , SDB$G_MTR),
;  354          0348  1          );
;  355          0349  1
;  356          0350  1 !
;  357          0351  1 !        Dispatch on KNOWN keyword during prompting
;  358          0352  1 !
;  359          0353  1
;  360        P 0354  1 $STATE  (ST_MTR_DAT_KWN,
;  361          0355  1          (TPA$_LAMBDA));
;  362          0356  1
;  363        P 0357  1          COMMAND_PROMPT
;  364        P 0358  1          (MTR, KWN, NCP$_INVKEY,
;  365        P 0359  1
;  366        P 0360  1          ('TRACEPOINTS', ST_MTR_PMT_TPT, ACT$SAVPRM,,, PBK$G_MTR_KTP),
;  367          0361  1          )
```

```
;  369          0362  1
;  370          0363  1 !
;  371          0364  1 !       Choose which TPARSE table to use, based on the type of
;  372          0365  1 !       parameters used in the command.
;  373          0366  1 !
;  374          0367  1
;  375        P 0368  1 $STATE  (ST_MTR_PRC,
;  376        P 0369  1          (TPA$_LAMBDA, ST_TPT_PRC, ACT$TESTLONG,,, TPT_PARAMS),
;  377          0370  1          (TPA$_LAMBDA));
;  378          0371  1
;  379          0372  1 !
;  380          0373  1 !       Dispatch keywords for trace-wide parameters
;  381          0374  1 !
;  382          0375  1
;  383        P 0376  1 $STATE  (,
;  384        P 0377  1          ((SE_ALL), ST_MTR_DOIT),
;  385        P 0378  1
;  386        P 0379  1          DISPATCH_STATES
;  387        P 0380  1          (MTR,
;  388        P 0381  1
;  389        P 0382  1          BSZ, 'BUFFER',
;  390        P 0383  1          CAP, 'CAPTURE',
;  391        P 0384  1          FNM, 'FILE',
;  392        P 0385  1          MAX, 'MAXIMUM',
;  393        P 0386  1          STA, 'STATE',
;  394        P 0387  1
;  395        P 0388  1          )
;  396        P 0389  1
;  397        P 0390  1          ,(TPA$_EOS, ST_MTR_DOIT)
;  398          0391  1          );
;  399          0392  1
;  400          0393  1 !
;  401          0394  1 !       Dispatch keywords for tracepoint parameters
;  402          0395  1 !
;  403          0396  1
;  404        P 0397  1 $STATE  (ST_TPT_PRC,
;  405        P 0398  1
;  406        P 0399  1          ((SE_ALL), ST_MTR_DOIT),
;  407        P 0400  1
;  408        P 0401  1          DISPATCH_STATES
;  409        P 0402  1          (MTR,
;  410        P 0403  1
;  411        P 0404  1          CAP, 'CAPTURE',
;  412        P 0405  1          TST, 'STATE',
;  413        P 0406  1
;  414        P 0407  1          )
;  415        P 0408  1
;  416        P 0409  1          ,(TPA$_EOS, ST_MTR_DOIT)
;  417          0410  1          );
```

```
;  419          0411  1
;  420          0412  1 !
;  421          0413  1 !       Dispatch on KNOWN keyword
;  422          0414  1 !
;  423          0415  1
;  424        P 0416  1 $STATE  (ST_MTR_PRC_KWN,
;  425          0417  1          ((SE_MTR_KWN), ST_MTR_PRC));
;  426          0418  1
;  427        P 0419  1 $STATE  (SE_MTR_KWN,
;  428        P 0420  1
;  429        P 0421  1          KEYWORD_STATE
;  430        P 0422  1          (MTR,
;  431        P 0423  1
;  432        P 0424  1          KTP, 'TRACEPOINTS',
;  433        P 0425  1
;  434          0426  1          ));
;  435          0427  1
;  436          0428  1 !
;  437          0429  1 !       Dispatch on MAXIMUM keyword
;  438          0430  1 !
;  439          0431  1
;  440        P 0432  1 $STATE  (ST_MTR_PRC_MAX,
;  441        P 0433  1
;  442        P 0434  1          DISPATCH_STATES
;  443        P 0435  1          (MTR,
;  444        P 0436  1
;  445        P 0437  1          MBK, 'BLOCKS',
;  446        P 0438  1          MBF, 'BUFFERS',
;  447        P 0439  1          MVR, 'VERSIONS',
;  448        P 0440  1
;  449          0441  1          ));
;  450          0442  1
;  451          0443  1 !
;  452          0444  1 !       Dispatch on CAPTURE keyword
;  453          0445  1 !
;  454          0446  1
;  455        P 0447  1 $STATE  (ST_MTR_PRC_CAP,
;  456        P 0448  1
;  457        P 0449  1          DISPATCH_STATES
;  458        P 0450  1          (MTR,
;  459        P 0451  1
;  460        P 0452  1          CPL, 'LIMIT',
;  461        P 0453  1          CPS, 'SIZE',
;  462        P 0454  1
;  463          0455  1          ));
;  464          0456  1
;  465          0457  1 !
;  466          0458  1 !       Tracepoint state
;  467          0459  1 !
;  468          0460  1
;  469        P 0461  1 $STATE  (ST_MTR_STA,
;  470        P 0462  1
;  471        P 0463  1          KEYWORD_STATE
;  472        P 0464  1          (MTR,
;  473        P 0465  1
;  474        P 0466  1          STAON, 'ON',
;  475        P 0467  1          STAOFF, 'OFF',
```

```
;  476        P 0468  1
;  477          0469  1          ));
;  478          0470  1
;  479          0471  1 !
;  480          0472  1 !       Tracing state
;  481          0473  1 !
;  482          0474  1
;  483        P 0475  1 $STATE  (ST_MTR_TST,
;  484        P 0476  1
;  485        P 0477  1          KEYWORD_STATE
;  486        P 0478  1          (MTR,
;  487        P 0479  1
;  488        P 0480  1          TSTON, 'ON',
;  489        P 0481  1          TSTOFF, 'OFF',
;  490        P 0482  1
;  491          0483  1          ));
```

```
;  493          0484  1
;  494          0485  1 !
;  495          0486  1 !       Process states
;  496          0487  1 !
;  497          0488  1
;  498        P 0489  1          PROCESS_STATES
;  499        P 0490  1          (MTR,
;  500        P 0491  1
;  501        P 0492  1          BSZ, 'SIZE',
;  502        P 0493  1          CPL, 'LIMIT',
;  503        P 0494  1          CPS, 'SIZE',
;  504        P 0495  1          FNM,
;  505        P 0496  1          MBK, 'BLOCKS',
;  506        P 0497  1          MBF, 'BUFFERS',
;  507        P 0498  1          MVR, 'VERSIONS',
;  508        P 0499  1          STA, ,
;  509        P 0500  1          TST, ,
;  510        P 0501  1
;  511          0502  1          )
```

```
;   513          0503  1
;   514          0504  1 !
;   515          0505  1 !       Subexpression states
;   516          0506  1 !
;   517          0507  1
;   518        P 0508  1         SUB_EXPRESSIONS
;   519        P 0509  1         (MTR,
;   520        P 0510  1
;   521        P 0511  1         BSZ, TPA$_DECIMAL,
;   522        P 0512  1         CPL, TPA$_DECIMAL,
;   523        P 0513  1         CPS, TPA$_DECIMAL,
;   524        P 0514  1         FNM, (SE_FILE_ID),
;   525        P 0515  1         MBK, TPA$_DECIMAL,
;   526        P 0516  1         MBF, TPA$_DECIMAL,
;   527        P 0517  1         MVR, TPA$_DECIMAL,
;   528        P 0518  1
;   529          0519  1         )
```

```
;   531          0520  1 %SBTTL  'CLEAR X25-TRACE Module Parameters'
;   532          0521  1
;   533          0522  1 !
;   534          0523  1 !       CLEAR/PURGE MODULE X25-TRACE parameter states
;   535          0524  1 !
;   536          0525  1
;   537        P 0526  1 $STATE  (ST_CTR,
;   538        P 0527  1         ((ST_CTR_INIT))
;   539          0528  1         );
;   540        P 0529  1 $STATE  (,
;   541        P 0530  1         (TPA$_EOS, ST_CTR_PMT_DAT),
;   542        P 0531  1         (TPA$_LAMBDA, ST_CTR_DAT)
;   543          0532  1         );
;   544          0533  1
;   545          0534  1 !
;   546          0535  1 !       CLEAR TRACEPOINT dispatched from NCPSTAVRB
;   547          0536  1 !
;   548        P 0537  1 $STATE  (ST_CTRTPT,
;   549        P 0538  1         ((ST_CTR_INIT), ST_CTR_DAT_TPT)
;   550          0539  1         );
;   551          0540  1
;   552          0541  1
;   553        P 0542  1 $STATE  (ST_CTR_INIT,
;   554          0543  1         (TPA$_LAMBDA, TPA$_EXIT, ACT$CLRLONG,,, TPT_PARAMS)); ! Assume trace-wide params
;   555          0544  1
;   556          0545  1 !
;   557          0546  1 !       Determine which X25 TRACE sub-database we are talking about
;   558          0547  1 !       (due to grouping restrictions, the command must not mix
;   559          0548  1 !       sub-database parameters).  The sub-database may be either
;   560          0549  1 !       X25 TRACE or tracepoint parameters.
;   561          0550  1 !
;   562          0551  1
;   563        P 0552  1 $STATE  (ST_CTR_PMT_DAT,
;   564          0553  1         (TPA$_LAMBDA,, ACT$PRMPT,,, PMT$G_CTR_DAT));
;   565          0554  1
;   566        P 0555  1 $STATE  (ST_CTR_DAT,              ! Determine whether TRACEPOINT parameters
;   567        P 0556  1         ('TRACEPOINT',  ST_CTR_DAT_TPT),
;   568        P 0557  1         ('KNOWN',       ST_CTR_DAT_KWN),
;   569          0558  1         (TPA$_LAMBDA));                         ! Else, assume TRACE-wide
;   570          0559  1
;   571          0560  1 !
;   572          0561  1 !       Prompt for normal trace parameters
;   573          0562  1 !
;   574          0563  1
;   575        P 0564  1 $STATE  (,
;   576        P 0565  1         (TPA$_EOS),                       ! Start prompting if EOS
;   577          0566  1         (TPA$_LAMBDA,ST_CTR_PRC));        ! Else, try parsing parameters
;   578          0567  1
;   579        P 0568  1         QUERY_STATES
;   580        P 0569  1         (CTR,
;   581        P 0570  1
;   582          0571  1         ALL, STA, BSZ, MBK, FNM, MBF, CPL, MVR)
;   583          0572  1
;   584        P 0573  1 $STATE  (,
;   585          0574  1         (TPA$_LAMBDA, ST_CTR_DOIT));
;   586          0575  1
;   587          0576  1 !
```

```
;  588          0577  1 !       Prompt for tracepoint parameters
;  589          0578  1 !
;  590          0579  1
;  591        P 0580  1 $STATE  (ST_CTR_DAT_TPT,
;  592          0581  1          (TPA$_LAMBDA,,, TRUE, TPT_PARAMS)); ! Remember that we are parsing
;  593          0582  1                                              ! tracepoint-specific parameters
;  594        P 0583  1 $STATE  (,
;  595          0584  1          ((SE_TRCPNT_NAME),, ACT$SAVPRM,,, PBK$G_CTR_TPT));
;  596          0585  1
;  597        P 0586  1 $STATE  (ST_CTR_PMT_TPT,
;  598        P 0587  1          (TPA$_EOS),                         ! Start prompting if EOS
;  599          0588  1          (TPA$_LAMBDA,ST_CTR_PRC));          ! Else, try parsing parameters
;  600          0589  1
;  601        P 0590  1          QUERY_STATES_S
;  602        P 0591  1          (CTR,
;  603        P 0592  1
;  604          0593  1          ALL, ALL2, CPS, CPS, TST, TST)
;  605          0594  1
;  606        P 0595  1 $STATE  (ST_CTR_DOIT,
;  607        P 0596  1          (TPA$_EOS, TPA$_EXIT, ACT$VRB_UTILITY, , , SDB$G_CTR),
;  608          0597  1          );
;  609          0598  1
;  610          0599  1 !
;  611          0600  1 !       Dispatch on KNOWN keyword during prompting
;  612          0601  1 !
;  613          0602  1
;  614        P 0603  1 $STATE  (ST_CTR_DAT_KWN,
;  615          0604  1          (TPA$_LAMBDA));
;  616          0605  1
;  617        P 0606  1          COMMAND_PROMPT
;  618        P 0607  1          (CTR, KWN, NCP$_INVKEY,
;  619        P 0608  1
;  620        P 0609  1          ('TRACEPOINTS', ST_CTR_PMT_TPT, ACT$SAVPRM,,, PBK$G_CTR_KTP),
;  621          0610  1          )
```

```
;   623          0611  1
;   624          0612  1 !
;   625          0613  1 !       Choose which TPARSE table to use, based on the type of
;   626          0614  1 !       parameters used in the command.
;   627          0615  1 !
;   628          0616  1
;   629        P 0617  1 $STATE  (ST_CTR_PRC,
;   630        P 0618  1          (TPA$_LAMBDA, ST_CTP_PRC, ACT$TESTLONG,,, TPT_PARAMS),
;   631          0619  1          (TPA$_LAMBDA));
;   632          0620  1
;   633          0621  1
;   634          0622  1 !
;   635          0623  1 !       Dispatch keywords for trace-wide parameters
;   636          0624  1 !
;   637          0625  1
;   638        P 0626  1 $STATE  (,
;   639        P 0627  1
;   640        P 0628  1          DISPATCH_STATES
;   641        P 0629  1          (CTR,
;   642        P 0630  1
;   643        P 0631  1          ALL, 'ALL',
;   644        P 0632  1          BSZ, 'BUFFER',
;   645        P 0633  1          CAP, 'CAPTURE',
;   646        P 0634  1          FNM, 'FILE',
;   647        P 0635  1          MAX, 'MAXIMUM',
;   648        P 0636  1          STA, 'STATE',
;   649        P 0637  1          )
;   650        P 0638  1
;   651        P 0639  1          ,(TPA$_EOS, ST_CTR_DOIT)
;   652          0640  1          );
;   653          0641  1
;   654          0642  1 !
;   655          0643  1 !       Dispatch keywords for tracepoint-specific parameters
;   656          0644  1 !
;   657          0645  1
;   658        P 0646  1 $STATE  (ST_CTP_PRC,
;   659        P 0647  1
;   660        P 0648  1          DISPATCH_STATES
;   661        P 0649  1          (CTR,
;   662        P 0650  1
;   663        P 0651  1          ALL, 'ALL',
;   664        P 0652  1          CAP, 'CAPTURE',
;   665        P 0653  1          TST, 'STATE',
;   666        P 0654  1          )
;   667        P 0655  1
;   668        P 0656  1          ,(TPA$_EOS, ST_CTR_DOIT)
;   669          0657  1          );
```

```
;  671          0658  1
;  672          0659  1 !
;  673          0660  1 !       Dispatch on KNOWN keyword
;  674          0661  1 !
;  675          0662  1
;  676        P 0663  1 $STATE  (ST_CTR_PRC_KWN,
;  677          0664  1          ((SE_CTR_KWN), ST_CTR_PRC));
;  678          0665  1
;  679        P 0666  1 $STATE  (SE_CTR_KWN,
;  680        P 0667  1
;  681        P 0668  1          KEYWORD_STATE
;  682        P 0669  1          (CTR,
;  683        P 0670  1
;  684        P 0671  1          KTP, 'TRACEPOINTS',
;  685        P 0672  1
;  686          0673  1          ));
;  687          0674  1
;  688          0675  1 !
;  689          0676  1 !       Dispatch on MAXIMUM keyword
;  690          0677  1 !
;  691          0678  1
;  692        P 0679  1 $STATE  (ST_CTR_PRC_MAX,
;  693        P 0680  1
;  694        P 0681  1          DISPATCH_STATES
;  695        P 0682  1          (CTR,
;  696        P 0683  1
;  697        P 0684  1          MBK, 'BLOCKS',
;  698        P 0685  1          MBF, 'BUFFERS',
;  699        P 0686  1          MVR, 'VERSIONS',
;  700        P 0687  1
;  701          0688  1          ));
;  702          0689  1
;  703          0690  1 !
;  704          0691  1 !       Dispatch on CAPTURE keyword
;  705          0692  1 !
;  706          0693  1
;  707        P 0694  1 $STATE  (ST_CTR_PRC_CAP,
;  708        P 0695  1
;  709        P 0696  1          DISPATCH_STATES
;  710        P 0697  1          (CTR,
;  711        P 0698  1
;  712        P 0699  1          CPL, 'LIMIT',
;  713        P 0700  1          CPS, 'SIZE',
;  714        P 0701  1
;  715          0702  1          ));
```

```
;  717          0703  1
;  718          0704  1 !
;  719          0705  1 !       Process states
;  720          0706  1 !
;  721          0707  1
;  722        P 0708  1         PROCESS_STATES
;  723        P 0709  1         (CTR,
;  724        P 0710  1
;  725        P 0711  1         ALL, ,
;  726        P 0712  1
;  727        P 0713  1         BSZ, 'SIZE',
;  728        P 0714  1         CPL, 'LIMIT',
;  729        P 0715  1         CPS, 'SIZE',
;  730        P 0716  1         FNM,
;  731        P 0717  1         MBK, 'BLOCKS',
;  732        P 0718  1         MBF, 'BUFFERS',
;  733        P 0719  1         MVR, 'VERSIONS',
;  734        P 0720  1         STA, ,
;  735        P 0721  1         TST, ,
;  736        P 0722  1
;  737          0723  1         )
```

```
;  739          0724  1
;  740          0725  1 !
;  741          0726  1 !!      Subexpression states
;  742          0727  1 !!
;  743          0728  1
;  744        P 0729  1          SUB_EXPRESSIONS
;  745        P 0730  1          (CTR,
;  746        P 0731  1
;  747        P 0732  1          ALL, TPA$_EOS,
;  748        P 0733  1
;  749        P 0734  1          BSZ, TPA$_LAMBDA,
;  750        P 0735  1          CPL, TPA$_LAMBDA,
;  751        P 0736  1          CPS, TPA$_LAMBDA,
;  752        P 0737  1          FNM, TPA$_LAMBDA,
;  753        P 0738  1          MBK, TPA$_LAMBDA,
;  754        P 0739  1          MBF, TPA$_LAMBDA,
;  755        P 0740  1          MVR, TPA$_LAMBDA,
;  756        P 0741  1          STA, TPA$_LAMBDA,
;  757        P 0742  1          TST, TPA$_LAMBDA,
;  758        P 0743  1
;  759          0744  1          )
```

```
;  761     0745  1 %SBTTL  'Define Subexpressions'
;  762     0746  1
;  763     0747  1 !
;  764     0748  1 !       Define Subexpressions from Library
;  765     0749  1 !
;  766     0750  1
;  767     0751  1         SEM_ALL                 ! All parameter
;  768     0752  1         SEM_FILE_ID             ! File name
;  769     0753  1         SEM_LINE_ID             ! For tracepoint name
;  770     0754  1         SEM_QUERY               ! Query state subexpressions
;  771     0755  1         SEM_TRCPNT_NAME         ! Tracepoint name
```

```
;  773          0756  1 END
;  774          0757  0 ELUDOM
```

NCPSTAMAC
LIS

NCPSTAMSE
LIS

NCPSTAMTR
LIS

NCPSTAMOD
LIS

NCPSTALOA
LIS

NCPSTALOO
LIS

NCPSTAMPR
LIS

NCPSTALOG
LIS

NCPSTANOD
LIS

NCPSTAVRB
LIS

NCPSTASHL
LIS

NCPSTAOBJ
LIS

NCPSTATRI
LIS

NCPSTAZER
LIS

NCPTERMIO
LIS

NCPTABLES
LIS

NCPVRBACT
LIS